

What is claimed is:

1. A heat pipe unit comprising:
  - a tank;
  - a plurality of pipes provided upstanding on and joined to a side of said tank to be in communication with said tank, said plurality of pipes being closed at an end thereof opposite an end where said plurality of pipes are joined to said tank;
  - a working fluid sealed in said tank and movable between said plurality of pipes and said tank, and
  - a plurality of fins each provided on said plurality of pipes.
2. The heat pipe unit according to claim 1, wherein said tank has a larger cross-sectional area than that of said plurality of pipes.
3. The heat pipe unit according to claim 1, wherein said tank comprises a pipe of circular cross section and is provided with a groove on an inner surface thereof.
4. The heat pipe unit according to claim 3, wherein said groove has a depth of 0.01 to 0.5 mm and a pitch of 4 mm or less.
5. A heat pipe type heat exchanger comprising:
  - a tank;
  - a plurality of pipes provided upstanding on and joined to a side of said tank to be in communication with said tank, said plurality of pipes being closed at an end thereof opposite an end where said plurality of pipes are joined to said tank;
  - a working fluid sealed in said tank and movable between said plurality of pipes and said tank;
  - a base block of metal having said tank embedded therein; and
  - a plurality of fins each provided on said plurality of pipes.
6. The heat pipe type heat exchanger according to claim 5, wherein said tank has a larger cross-sectional area than that of said plurality of pipes.
7. The heat pipe type heat exchanger according to claim 5, wherein said tank comprises a pipe of circular cross section and is provided with a groove on an inner surface thereof.
8. The heat pipe type heat exchanger according to claim 7, wherein said groove has a depth of 0.01 to 0.5 mm and a pitch of 4 mm or less.
9. A heat pipe type heat exchanger comprising:
  - a plurality of tanks;
  - a plurality of pipes provided upstanding on and joined to a side of each of said tanks to be in communication with a corresponding one of said tanks, said plurality of

pipes being closed at an end thereof opposite an end where said plurality of pipes are joined to a corresponding one of said tanks;

a working fluid sealed in each of said tanks and movable between said plurality of pipes and the corresponding one of said tanks;

a base block of metal having said plurality of tanks embedded therein; and

a plurality of fins provided on at least some of said plurality of pipes of one or more of said plurality of tanks.

10. The heat pipe type heat exchanger according to claim 9, wherein each of said plurality of tanks comprises a pipe of circular cross section and is provided with a groove on an inner surface thereof.

11. The heat pipe type heat exchanger according to claim 10, wherein said groove has a depth of 0.01 to 0.5 mm and a pitch of 4 mm or less.

12. The heat pipe type heat exchanger according to claim 9, wherein said plurality of pipes of one or more of said plurality of tanks are arranged in top view in a grid-like manner or in a staggered manner.

13. The heat pipe type heat exchanger according to claim 5, wherein said tank is screwed to said base block with mounting hardware.

14. The heat pipe type heat exchanger according to claim 9, wherein each of said tanks is screwed to said base block with mounting hardware.

15. A heat pipe type heat exchanger comprising:

a tank;

a plurality of pipes provided upstanding on and joined to a side of said tank to be in communication with said tank, said plurality of pipes being closed at an end thereof opposite an end where said plurality of pipes are joined to said tank;

a working fluid sealed in said tank and movable between said plurality of pipes and said tank;

a base block of metal having said tank embedded therein; and

a plurality of fins provided on said plurality of pipes,

wherein said plurality of pipes are angled relative to said base block such that when said base block is mounted vertically, said plurality of pipes extend at an angle of 5 to 10° relative to a horizontal plane.

16. The heat pipe type heat exchanger according to claim 15, wherein said tank has a larger cross-sectional area than that of said plurality of pipes.

17. The heat pipe type heat exchanger according to claim 15, wherein said tank has a circular cross section and has a groove formed on an inner surface thereof.